

Emergency Management Technical Committee (EM-TC) Update

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Emergency Data Exchange Language (EDXL)

Internationally Available

Open and Non-Proprietary

Free Standards

EDXL Overview

■ EDXL Standards

- *EDXL-Common Alerting Protocol (CAP)*
- *EDXL-Distribution Element (DE)*
- *EDXL-Hospital Availability Exchange (HAVE)*
- *EDXL-Resource Messaging (RM)*

■ EDXL Committee Specifications

- *EDXL-Situation Reporting (SitRep)*
- *EDXL-Tracking of Emergency Patients (TEP)*

■ EDXL Specifications Under Development

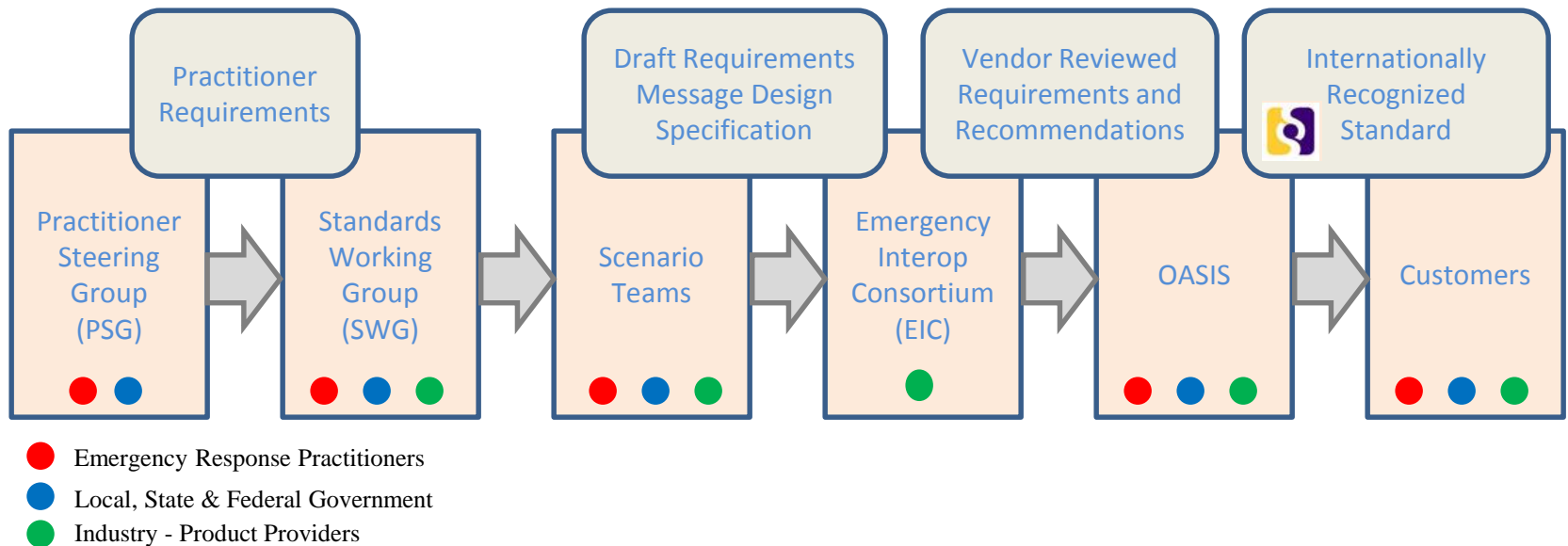
- *EDXL-Tracking of Emergency Clients (TEC)*

■ EDXL Reference Information Model (RIM)

- *EDXL-Supporting Elements*

EM-TC Background

- Formed in 2003 with the first practitioner driven specification effort
- Emergency Data Exchange Language (EDXL) Process



EDXL - CAP

Common Alerting Protocol



■ Overview:

CAP is a message format for exchanging all types of alerts and warnings over many different networks. International adoption since 2004, ITU-T 1303

■ Features:

- *Extensible Markup Language (XML) with Digital Signature support*
- *Transport and system independent*
- *All-Hazards All-Media*

■ Versions:

- *v1.0 - 2004, v1.1- 2005, v1.2 – 2010 (v2.0 in progress)*



CAP Profiles

■ CAP 1.2 IPAWS Profile

- *Ensures that CAP data will be compatible with U.S. channels for alert distribution, including the Emergency Alert System (EAS).*

■ CAP Canadian Profile (CAP-CP)

- *Set of rules, and managed lists that are recommended in Canada.*

■ CAP Australia Profile (CAP-AU-STD)

- *Provides a formal national agreement on CAP, enabling Australian, State and Territory governments to improve exchange and interoperability of hazard alerting messages between systems.*



EDXL - DE

Distribution Element



■ Overview:

EDXL-DE facilitates the packaging of content and provides a standard set of elements in a header to describe that content in order to facilitate message delivery.

■ Features:

- *Ability to package both XML and binary data*
- *Ability to use region-specific terminology*
- *XML with Digital Signature and encryption support*
- *Transport and system independent*

■ Versions:

- *v.1.0 - 2006 (v2.0 in progress)*

EDXL - RM

Resource Messaging



■ Overview:

- *Organizes Emergency Logistics Information in a Standard XML Vocabulary*
- *Another EDXL-DE Payload Message*

■ Features:

- *16 Predefined Response-Request-Report Resource Messages*
- *User-defined Resource Messages Allowed Using Standard Terms and Datatypes*

■ Versions:

- *v1.0 - 2008*

EDXL - HAVE

Hospital Availability Exchange

■ Overview:

- *EDXL-HAVE allows the communication of the status of a hospital, its services, and its resources.*
- *Includes bed capacity and availability, emergency department status, available services and the status of a hospital's facility and operations.*

■ Features:

- *Multiple use – EDXL-HAVE provides a flexible format which can be used during disasters, everyday emergencies, reporting etc.*

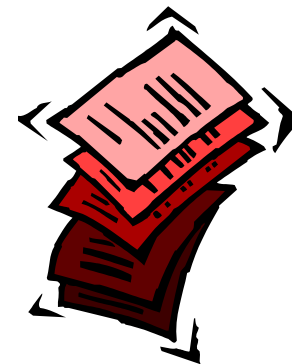
■ Versions:

- *v1.0 - 2008 (v2.0 in progress)*



EDXL - SitRep

Situation Reporting



■ Overview:

- *Supports reporting on incidents in consistent format*
- *Exchange clear, well-defined information for accurate, well-informed decisions*

■ Features:

- *Choice of preconfigured reports including field observations for all situations*
- *Incorporates standard Incident Command System (ICS) Forms*
- *From brief observations of limited locations*
- *To full scale planning for response to large scale disasters*

■ Versions:

- *v1.0 – 2016 Committee Specification*

EDXL - TEP

Tracking of Emergency Patients



■ Overview:

- *Supports exchange of emergency patient and tracking information during patient encounter from admission to release*

■ Features:

- *Patient tracking across the Emergency Medical Service (EMS) and emergency medical care continuum, as well as hospital evacuations and day-to-day patient transfers*
- *Supports incident responders, emergency management, coordinating organizations, and care facilities in the chain of care and transport.*
- *Special Committee Note to provide for the transformation of TEP data to/from HL7 Admission/Discharge/Transfer Messages TEP <->ADT.*

■ Versions:

- *v1.1 – 2016 Committee Specification*

EDXL - RIM

Reference Information Model

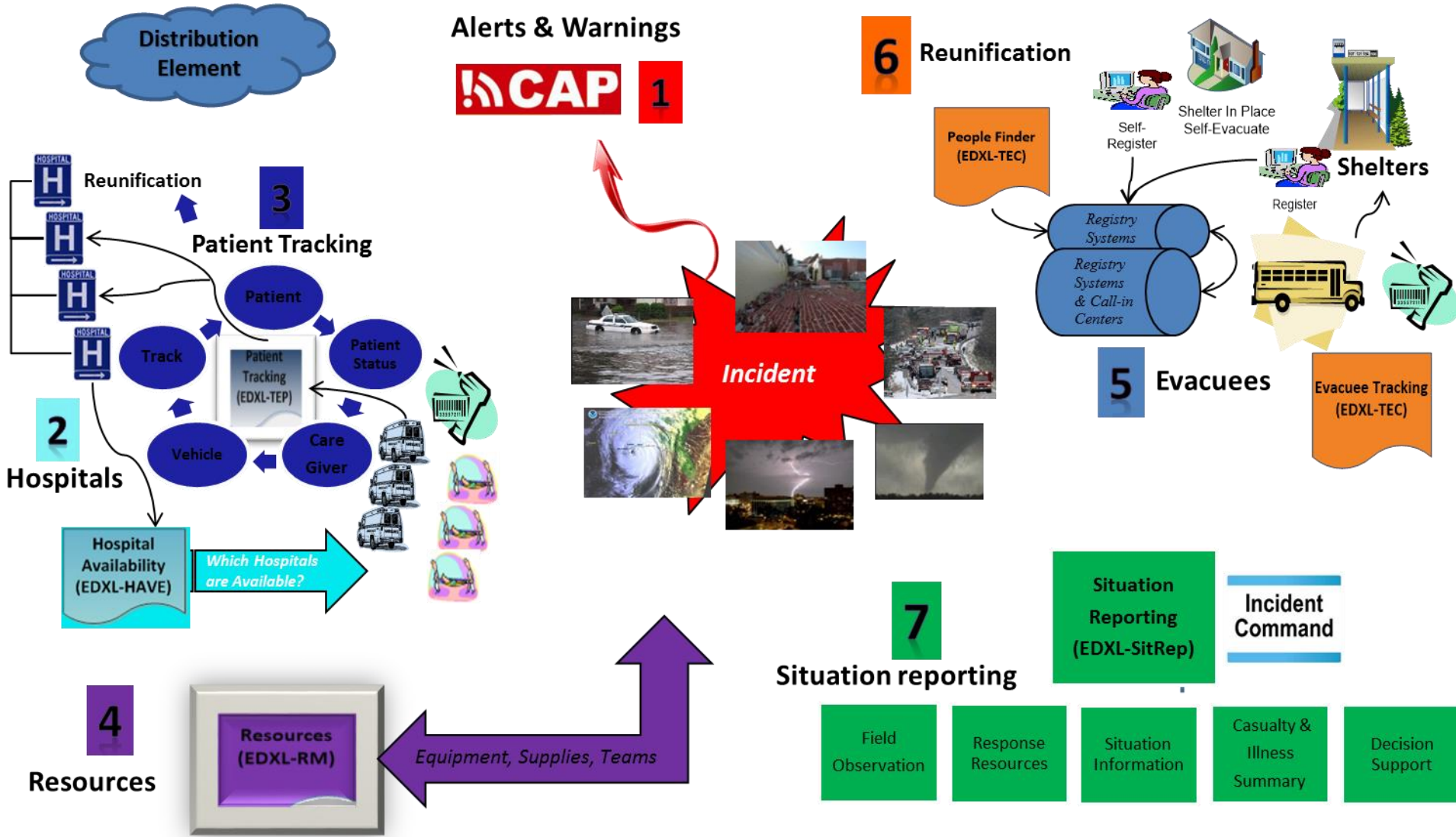


■ Overview:

- *Provides a high-level, abstract, information model for the family of EDXL standards and Supporting Elements*

■ Features:

- *EDXL Common Types*
- *EDXL CIQ (Contact Information)*
- *EDXL GSF (Profile GML Simple Features)*
- *Comprehensive UML Model of EDXL Suite of Standards*



Get Involved / Learn More

- *Ask software vendors about use of EDXL to encourage adoption*
- *Include references to the EDXL suite of standards when preparing Request for Proposal (RFP)*
- *Learn about the OASIS EDXL work and share this information with others*
- *Share information about EDXL work you are doing*
- *Participate in the Emergency and Emergency Adoption technical committees*
- *Contact OASIS with questions or ideas*

Questions?

Resources